Claims

1. Arrangement having means of transmission for sending a signal and means of reception for receiving a reflection of the transmitted signal, the means of reception having a receiving oscillator,

characterized in that

the transient response of the receiving oscillator can be influenced by the reflection of the transmitted signal.

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- 2. Arrangement according to Claim 1, characterized in that
- the build-up time and/or the average delivered power of the receiving oscillator can be influenced by the reflection of the transmitted signal.
- 3. Arrangement according to one of the preceding claims, characterized in that

the power of the receiving oscillator can be measured.

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4. Arrangement according to one of the preceding claims, characterized in that

the arrangement has a means for switching the receiving oscillator on and off, in particular periodically, using a clock rate.

- 5. Arrangement according to one of the preceding claims, characterized in that the receiving oscillator also acts as a transmitting oscillator for generating the signal intended for transmission.
 - 6. Arrangement according to one of the preceding claims, characterized in that the arrangement has a second oscillator, which acts as the transmitting oscillator for generating the signal intended for transmission.
 - 7. Arrangement according to one of the preceding claims, characterized in that
- 15 the arrangement is an arrangement for measuring distance.
 - 8. Arrangement according to one of the preceding claims, characterized in that

the arrangement is a radar, in particular a pulsed radar.

9. Arrangement according to one of the preceding claims, characterized in that

the arrangement for detecting a measurement signal has a mixer in which a first measurement sub-signal and a second

25 measurement sub-signal are added together.

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10. Arrangement according to one of the preceding claims, characterized in that

the arrangement for detecting a measurement signal has a mixer with two diodes, and the said diodes are used with the same polarity, the measurement signal being formed by the sum of two measurement sub-signals, or the said diodes are used with opposite polarity, the measurement signal being formed by the difference between the two sub-signals.

10 11. Vehicle, building or industrial equipment having an arrangement according to one of the preceding claims.

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- 12. Measurement method, in particular for measuring distance, in which:
- 15 a means of transmission is used to generate and send a signal,
 - a means of reception having a receiving oscillator is used to receive a reflection of the transmitted signal,
- the transient response of the receiving oscillator is
 influenced by the reflection of the transmitted signal.